FM-2 Antepartum Fetal Monitor Software Upgrade to Rev. V1.05

Software Upgrade Procedure

The customer is responsible for saving all relevant traces before starting the upgrade for FM-2 monitor. Ensure that the customer has done this before starting the update.

Before performing an upgrade:

- **Stop all monitoring activities.**
- **Disconnect transducers.**
- **Disconnect the printer, recorder or modem.**
- **Ensure that the FM-2 is connected to an AC power source.**
- **Ensure all transfers of patient data (to a recorder, printer, modem or system) are stopped.**
- **Document all configuration settings. Please refer to the *Instructions for Use,* M2922-9001B, pages 18-20 for further information.**

The upgrade software is available on the Philips Softserver. You need the service cable M1380-61624.

Download the self-extracting FM-2v1.05 file and save it to a directory on your PC's hard disk. Double click on the FM-2v1.05.exe file to run it. After a few seconds, a box like this appears:

Press **Yes**. After a few seconds, a new box appears:

FM-2 Software Upgrade - Welcome
FM-2 Software Upgrade
version V1.05
by Philips Medical Systems
To upgrade FM-2 software, connect FM-2 via RS-232 null-modem cable to an available serial port and press "Next"...
Copyright © 2002 Philips Medizinsysteme Böblingen GmbH
InstallShield
< Back
Next >
Cancel

Click **Next**.

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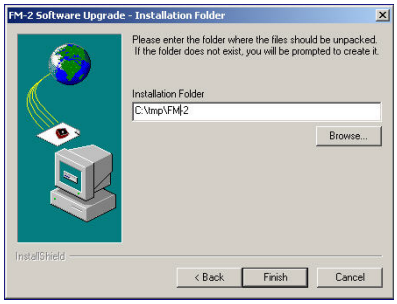
In the next menu, choose the directory where you want the software to be installed (e.g. C:\temp\FM-2).



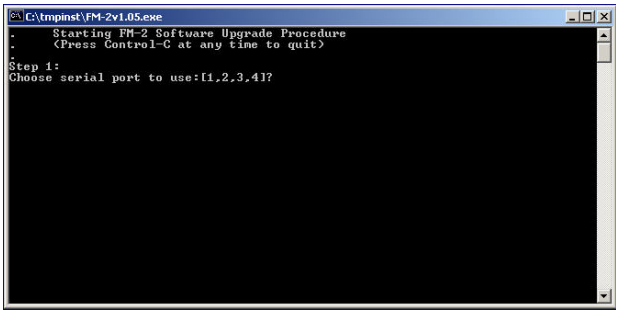
Then click **Finish**.

If the directory you specified to install the software does not yet exist, this box appears.

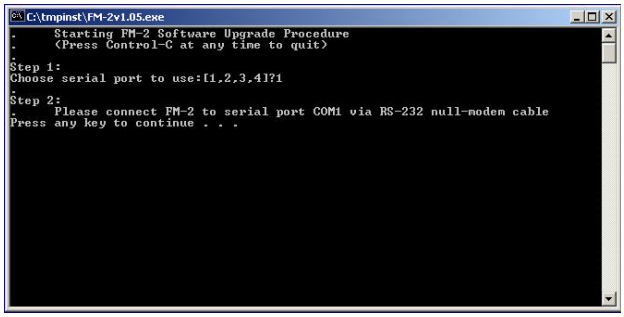
Press **Yes**.

After extracting the software a MS-DOS prompt appears, and the Software Upgrade Procedure is started automatically.

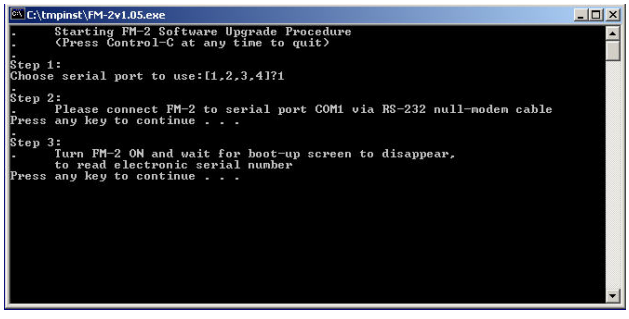
STEP 1: Select the Serial Port (Com Port) to which the service cable M1380-61624 is attached.



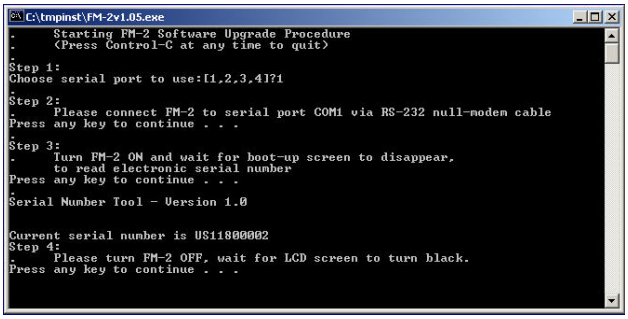
STEP 2: Connect the service cable to the FM-2 and follow the instructions on the screen.


C:\tmpinst\FM-2v1.05.exe
. Starting FM-2 Software Upgrade Procedure
. (Press Control-C at any time to quit)
.
Step 1:
Choose serial port to use:[1,2,3,4]?1
.
Step 2:
. Please connect FM-2 to serial port COM1 via RS-232 null-modem cable
Press any key to continue . . .

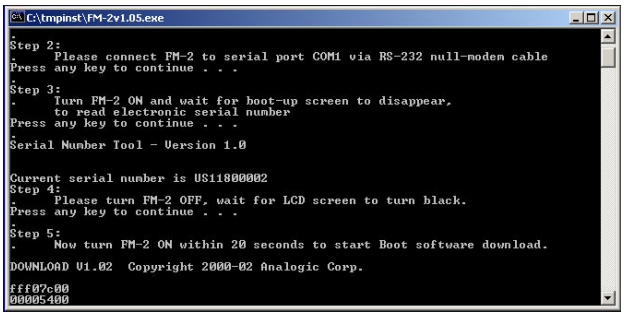
STEP 3: Turn on the FM-2 and wait for the boot-up screen to disappear. Then press any key.


C:\tmpinst\FM-2v1.05.exe
. Starting FM-2 Software Upgrade Procedure
. (Press Control-C at any time to quit)
.
Step 1:
Choose serial port to use:[1,2,3,4]?1
.
Step 2:
. Please connect FM-2 to serial port COM1 via RS-232 null-modem cable
Press any key to continue . . .
.
Step 3:
. Turn FM-2 ON and wait for boot-up screen to disappear,
. to read electronic serial number
Press any key to continue . . .

STEP 4: Turn off the FM-2 by pressing the power on/off button.

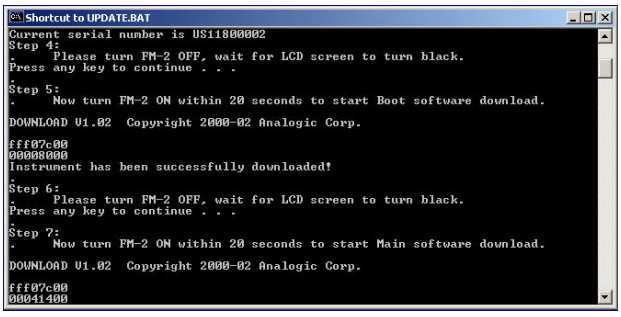

C:\tmpinst\FM-2v1.05.exe
. Starting FM-2 Software Upgrade Procedure
. (Press Control-C at any time to quit)
.
Step 1:
Choose serial port to use:[1,2,3,4]?1
.
Step 2:
. Please connect FM-2 to serial port COM1 via RS-232 null-modem cable
Press any key to continue . . .
.
Step 3:
. Turn FM-2 ON and wait for boot-up screen to disappear,
to read electronic serial number
Press any key to continue . . .
.
Serial Number Tool - Version 1.0
Current serial number is US11800002
Step 4:
. Please turn FM-2 OFF, wait for LCD screen to turn black.
Press any key to continue . . .

STEP 5: Within a time limit of 20 seconds, turn on the FM-2 again. If this time limit is exceeded the software automatically returns to STEP 3, and you must follow all steps until the download starts. The boot software is now loaded.

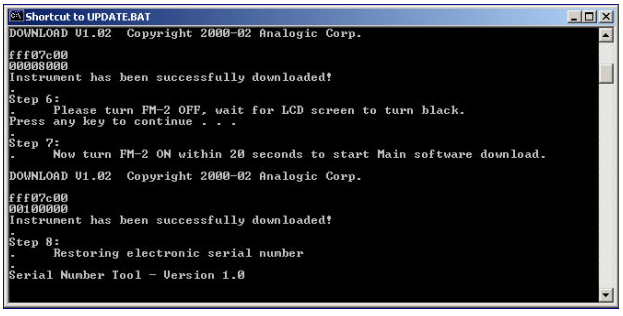

C:\tmpinst\FM-2v1.05.exe
Step 2:
. Please connect FM-2 to serial port COM1 via RS-232 null-modem cable
Press any key to continue . . .
Step 3:
. Turn FM-2 ON and wait for boot-up screen to disappear,
to read electronic serial number
Press any key to continue . . .
Serial Number Tool - Version 1.0
Current serial number is US11800002
Step 4:
. Please turn FM-2 OFF, wait for LCD screen to turn black.
Press any key to continue . . .
Step 5:
. Now turn FM-2 ON within 20 seconds to start Boot software download.
DOWNLOAD V1.02 Copyright 2000-02 Analogic Corp.
fff07c00
00005400

STEP 6: Turn off the FM-2 and wait until the LCD screen turns black. Then press any key to continue.

STEP 7: Within a time limit of 20 seconds, turn on the FM-2 again. If this time limit is exceeded the software automatically returns to STEP 6, and you must follow all steps until the download starts.


Shortcut to UPDATE.BAT
Current serial number is US11800002
Step 4:
. Please turn FM-2 OFF, wait for LCD screen to turn black.
Press any key to continue . . .
Step 5:
. Now turn FM-2 ON within 20 seconds to start Boot software download.
DOWNLOAD V1.02 Copyright 2000-02 Analogic Corp.
fff07c00
00008000
Instrument has been successfully downloaded!
Step 6:
. Please turn FM-2 OFF, wait for LCD screen to turn black.
Press any key to continue . . .
Step 7:
. Now turn FM-2 ON within 20 seconds to start Main software download.
DOWNLOAD V1.02 Copyright 2000-02 Analogic Corp.
fff07c00
00041400

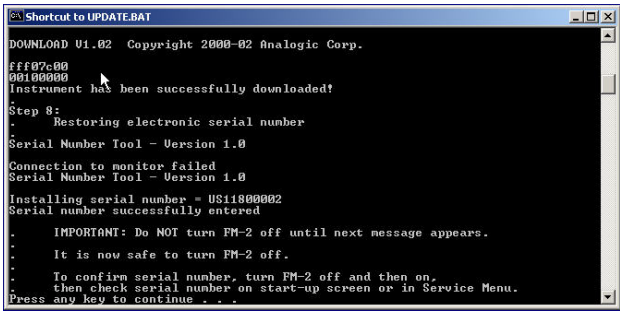
STEP 8: The application software is now loaded. After completing the last process, the upgrade software restores the serial number. Please do not switch off the FM-2 until the software tool displays the message that the upgrade has been completed successfully and the monitor can be switched off.


Shortcut to UPDATE.BAT
DOWNLOAD V1.02 Copyright 2000-02 Analogic Corp.
fff07c00
00008000
Instrument has been successfully downloaded!
Step 6:
. Please turn FM-2 OFF, wait for LCD screen to turn black.
Press any key to continue . . .
Step 7:
. Now turn FM-2 ON within 20 seconds to start Main software download.
DOWNLOAD V1.02 Copyright 2000-02 Analogic Corp.
fff07c00
00100000
Instrument has been successfully downloaded!
Step 8:
. Restoring electronic serial number
Serial Number Tool - Version 1.0

STEP 9: Upgrade was successfully completed. Please switch off the FM-2 and switch it on again to:

- Check the software revision. and the serial number.
- Check date, time, and date & time format settings. Re-adjust all settings that were configured by the customer. See the *Instructions for Use*, M2922-9001B, pages 18-20.

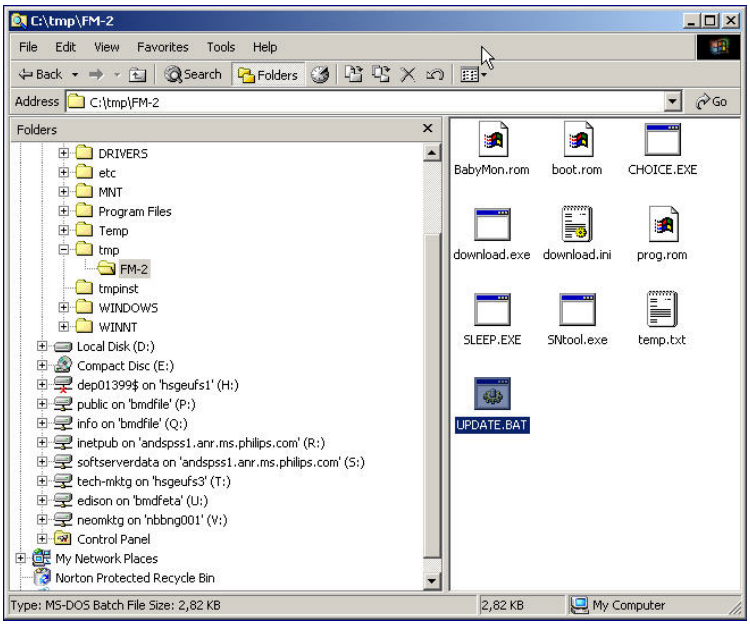
Please disregard the message “Connection to monitor failed”, if it is also followed by the message “Serial number successfully entered”.


Shortcut to UPDATE.BAT
DOWNLOAD V1.02 Copyright 2000-02 Analogic Corp.
fff07c00
00100000
Instrument has been successfully downloaded!
Step 8:
Restoring electronic serial number
Serial Number Tool - Version 1.0
Connection to monitor failed
Serial Number Tool - Version 1.0
Installing serial number = US11800002
Serial number successfully entered
IMPORTANT: Do NOT turn FM-2 off until next message appears.
It is now safe to turn FM-2 off.
To confirm serial number, turn FM-2 off and then on.
then check serial number on start-up screen or in Service Menu.
Press any key to continue . . .

Upgrading Another FM-2

If you want to upgrade another FM-2, go to the directory were you installed the FM-2 upgrade files (e.g. C:\temp\FM-2) and double click on the "UPDATE.bat" file.

The UPDATE.bat file starts the upgrade progam again.



The procedure restarts at STEP 1, and you are able to upgrade another FM-2.

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